Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-4. (canceled)
- 5. (previously presented) A process for preparing ondansetron hydrochloride monohydrate comprising the steps of:
 - a) contacting crystals of ondansetron hydrochloride dihydrate with a mixture of from about 4% to about 50% water in ethanol to convert the crystals of ondansetron hydrochloride dihydrate to crystals of ondansetron hydrochloride monohydrate,
 - b) separating the crystals of ondansetron hydrochloride monohydrate from the ethanol/water mixture, and
 - c) recovering the crystals of ondansetron hydrochloride monohydrate.
- 6. (original) The process of claim 5 wherein the contacting occurs at the reflux temperature of the ethanol:water mixture.
- 7. (original) The process of claim 5 wherein the dihydrate and monohydrate are denominated Form A expressing that their crystal structures are the same.
- 8. (canceled)
- 9. (canceled)
- 10. (currently amended) A process for preparing ondansetron hydrochloride Form A having between about 5% water and <u>about</u> 10% water, comprising the steps of:
 - suspending ondansetron free base in a liquid medium selected from the group consisting of absolute ethanol, a mixture of ethanol and isopropanol, and chloroform, and a mixture of chloroform and water,
 - b) dissolving the free base by adding anhydrous HCl to the suspension,

- c) crystallizing ondansetron hydrochloride Form A <u>having between about</u>

 5% water and about 10% water from the liquid medium, and
- d) separating the crystalline ondansetron hydrochloride Form A <u>having</u> between about 5% water and about 10% water from the liquid medium.
- 11. (canceled)
- (original) The process of claim 10 wherein the HCl is added in an amount of 1
 ± 0.1 equivalent with respect to the ondansetron free base.
- 13. (previously presented) The process of claim 10 wherein the anhydrous HCl is a gas.
- 14. (original) The process of claim 10 wherein the anhydrous HCl is added in solution in an inert organic solvent.
- 15. (canceled)
- 16. (currently amended) A process for preparing ondansetron hydrochloride Form A having between about 6 5% water and about 9 10% water, comprising the steps of:
 - a) dehydrating crystals of ondansetron hydrochloride dihydrate by contacting the crystals with a liquid medium selected from the group consisting of ethanol, mixtures of ethanol and water, toluene and mixtures of ethanol and toluene,
 - b) separating the liquid medium from the crystals to obtain ondansetron hydrochloride Form A having between about 6% water and about 9% water, and
 - c) collecting the crystals of ondansetron hydrochloride Form A <u>having</u> between about 6% water and about 9% water.
- 17. (original) The process of claim 16 wherein the crystals are mechanically agitated during dehydration.
- 18. (original) The process of claim 17 wherein the mechanical agitation is sonication.

- 19. (original) Anhydrous ondansetron hydrochloride.
- 20. (original) Anhydrous ondansetron hydrochloride Form B.
- 21. (currently amended) Anhydrous ondansetron hydrochloride polymorphic Form B characterized by powder X-ray diffraction peaks at 10.5, 11.9, 13.0, 13.5, and 15.1 ±0.2 degrees two-theta.
- 22. (currently amended) The anhydrous ondansetron hydrochloride polymorphic Form B of claim 21, further characterized by powder X-ray diffraction peaks at 10.5, 11.9, 13.0, 13.5, 15.1, 20.9, 22.7, 24.0, and 25.7 ± 0.2 degrees twotheta.
- 23. (canceled)
- 24. (canceled)
- 25. (currently amended) A process for preparing the <u>anhydrous</u> ondansetron hydrochloride <u>Form B</u> of claim 21 or 22 <u>comprising</u>: by
 - a) treating ondansetron hydrochloride with a dry C₁-C₄ alcohol or ketone
 [[.]] to form the anhydrous ondansetron hydrochloride Form B of claim
 21 or 22; and
 - b) recovering the anhydrous ondansetron hydrochloride Form B of claim 21 or 22.
- 26. (original) The process of claim 25 wherein the solvent is absolute ethanol.
- 27. (currently amended) The process of claim 25 wherein the ondansetron hydrochloride that is treated with dry alcohol is Form A.
- 28. (original) The process of claim 25 wherein the treatment is carried out at about 20°C.
- 29. (canceled)

- 30. (currently amended) The process of claim 25 wherein the alcohol is ethanol, isopropanol, 1-butanol or a mixtures of thereof.
- 31. (canceled)
- 32. (currently amended) A process <u>for</u> of preparing the <u>anhydrous</u> ondansetron hydrochloride <u>Form B</u> of claim 21 or 22 <u>comprising</u>: by
 - a) treating ondansetron hydrochloride with a dry organic solvent; and
 - b) recovering the anhydrous ondansetron hydrochloride Form B of claim 21 or 22.
- 33. (original) The process of claim 32 wherein the solvent is absolute ethanol.
- 34. (previously presented) The process of claim 32 wherein the ondansetron hydrochloride that is treated is Form A.
- 35. (original) The process of claim 32 wherein the solvent is a ketone.
- 36. (canceled)
- 37. (original) The process of claim 32 wherein the treatment is carried out at about 20°C.
- 38. (canceled)
- 39. (currently amended) The anhydrous ondansetron hydrochloride polymorphic Form B of claim 21 in particle form having 100% of the particles a particle size below about 300 microns in size.
- 40. (canceled)
- 41. (currently amended) The anhydrous ondansetron hydrochloride polymorphic Form B of claim 21 in particle form having 100% of the particles a particle size below about 200 microns in size.
- 42. (canceled)

- 43. (currently amended) The anhydrous ondansetron hydrochloride polymorphic Form B of claim 21 in particle form having 100% of the particles a particle size below about 40 microns in size.
- 44. (canceled)
- 45. (currently amended) The anhydrous ondansetron hydrochloride polymorphic Form B of claim 21 with a water content up to about 2%.
- 46. (currently amended) A process for preparation of preparing the anhydrous ondansetron hydrochloride polymorphic Form B of claim 21 characterized by powder X ray diffraction peaks at 10.5, 11.9, 13.0, 13.5, and 15.1 ±0.2 degrees two theta comprising:
 - a) reacting HCl gas with a toluene solution of ondansetron base to form the anhydrous ondansetron hydrochloride Form B of claim 21; and
 - b) recovering the anhydrous ondansetron hydrochloride Form B of claim 21.
- 47. (previously presented) The process of claim 46 wherein the ondansetron base is dissolved at the reflux temperature of toluene.
- 48. (previously presented) The process of claim 46 wherein HCl gas is bubbled into the toluene solution of ondansetron base.
- 49. (currently amended) Ondansetron hydrochloride Form C, characterized by strong powder X-ray diffraction peaks at 6.3 and 24.4 ±0.2 degrees two-theta and other peaks at 6.3, 9.2, 10.2, 13.1, and 16.9 and 24.4 ±0.2 degrees two-theta.
- 50. (currently amended) The ondansetron Ondansetron hydrochloride Form C of claim 49, wherein the characterized by powder X-ray diffraction peaks at 6.3, 9.2, 10.2, 13.1, 16.9 and 24.4 ±0.2 degrees two-theta are strong peaks.

- 51. (currently amended) A process for <u>preparing preparation of</u> the <u>ondansetron</u>

 <u>hydrochloride Form C product</u> of claim 49 or 50 <u>comprising which comprises</u>

 the steps of:
 - a) dissolving ondansetron base in ethanol,
 - b) adding an ethanolic solution of hydrochloride hydrogen chloride to form a mixture,
 - c) filtering the mixture to remove precipitated solids, and
 - d) evaporating the <u>ethanol</u> mother liquor to recover the ondansetron hydrochloride Form C of claim 49 or 50.
- 52. (previously presented) Ondansetron hydrochloride Form D, characterized by powder X-ray diffraction peaks at 8.3, 14.0, 14.8 and 25.5 \pm 0.2 degrees two-theta.
- 53. (previously presented) A process for preparing the ondansetron hydrochloride Form D of claim 52 comprising the steps of:
 - a) melting ondansetron hydrochloride in the presence of xylene; and
 - b) adding the melt to ethanol.
- 54. (previously presented) The process of claim 53 wherein the ondansetron hydrochloride is ondansetron hydrochloride Form A.
- 55. (previously presented) The process of claim 53 wherein the ethanol is at a temperature of from about -15°C to about room temperature.
- 56. (original) The process of claim 55 wherein the ethanol is at a temperature of about -10°C.
- 57. (currently amended) Ondansetron hydrochloride Form E, characterized by a strong powder X-ray diffraction peaks at 7.4 degrees two theta and peaks at 6.3, 7.4, 10.5, 11.2, 12.3, 13.0, 14.5, 15.9, 17.0, 20.1, 20.8, 24.5, 26.2 and 27.2 ±0.2 degrees two-theta.
- 58. (currently amended) The ondansetron Ondansetron hydrochloride Form E of claim 57, wherein the characterized by powder X-ray diffraction peaks at 6.3,

- 7.4, 10.5, 11.2, 12.3, 13.0, 14.5, 15.9, 17.0, 20.1, 20.8, 24.5, 26.2 and 27.2 \pm 0.2 degrees two-theta is a strong peak.
- 59. (currently amended) A process for preparation of the <u>ondansetron</u>

 <u>hydrochloride Form E product</u> of claim 57 or 58 <u>comprising</u>: <u>which comprises</u>

 <u>the step of</u>
 - <u>a)</u> treating ondansetron hydrochloride in isopropanol <u>to form the</u> ondansetron hydrochloride Form E of claim 57 or 58; and
 - b) recovering the ondansetron hydrochloride Form E of claim 57 or 58.
- 60. (original) The process of claim 59 wherein the ondansetron hydrochloride is Form A.
- 61. (original) The process of claim 59 wherein the temperature of the isopropanol is from about room temperature to about reflux temperature.
- 62. (original) Ondansetron hydrochloride isopropanolate.
- 63. (original) Ondansetron hydrochloride Form E isopropanolate.
- 64. (original) Ondansetron hydrochloride Form E mono-isopropanolate.
- 65. (original) Ondansetron hydrochloride Form E hemi-isopropanolate.
- 66. (original) Ondansetron hydrochloride Form E having a water content of up to about 10%.
- 67. (previously presented) Ondansetron hydrochloride Form H, characterized by powder X-ray diffraction peaks at 7.8, 14.0, 14.8, 24.7 and 25.6 ± 0.2 degrees two-theta.
- 68. (currently amended) A process for preparing the ondansetron hydrochloride Form H of claim 67 comprising which comprises the steps of:
 - a) <u>suspending suspension of ondansetron base in absolute ethanol;</u>
 - b) adding an ethanol solution of hydrochloric acid to the suspension;

- c) precipitating the ondansetron hydrochloride Form H of claim 67 by adding ether to the suspension; and
- d) isolating the ondansetron hydrochloride Form H of claim 67.
- 69. (original) The process of claim 68 wherein the ether is methyl tert-butyl ether or diethyl ether.
- 70. (original) The process of claim 68 wherein the ether is dry.
- 71. (canceled)
- 72. (previously presented) Ondansetron hydrochloride methanolate.
- 73. (original) Ondansetron hydrochloride methanolate Form I.
- 74. (currently amended) Ondansetron hydrochloride Form I, characterized by a strong powder X-ray diffraction XRD peak at 25.0 ±0.2 degrees two-theta and other powder X-ray diffraction XRD peaks at 8.2, 9.3, 9.9, 11.1 and 24.9 ±0.2 degrees two-theta.
- 75. (currently amended) Ondansetron hydrochloride Form I, characterized by a strong powder X-ray diffraction XRD peak at 25.0 ±0.2 degrees two-theta and other powder X-ray diffraction XRD peaks at 8.2, 9.3, 9.9, 11.1, 13.9, 16.0, 17.0, 21.0, 22.6, 25.8, 27.3 and 28.0 ±0.2 degrees two-theta.
- 76. (currently amended) Ondansetron hydrochloride Form I, characterized by a strong powder X-ray diffraction XRD peak at 25.0 ±0.2 degrees two-theta and other powder X-ray diffraction XRD peaks at 6.9, 8.2, 8.7, 9.1, 9.3, 9.9, 11.1, 11.6, 13.8, 16.1, 16.9, 17.9, 21.1, 22.7, 25.7, 26.6, 27.4 and 27.9 ±0.2 degrees two-theta.
- 77. (currently amended) A process for <u>preparing erystallizing</u> ondansetron hydrochloride Form I comprising exposing ondansetron hydrochloride to methanol vapor <u>to form ondansetron hydrochloride Form I.</u>
- 78. (original) The process of claim 77 wherein the exposure is for a period of about three weeks or less.

- 79. (original) The process of claim 77 wherein the exposure is at room temperature.
- 80. (original) The process of claim 77 wherein ondansetron hydrochloride Form A is exposed to methanol vapor.
- 81. (original) The process of claim 77 wherein <u>anhydrous</u> ondansetron hydrochloride Form B is exposed to methanol vapor.
- 82. (currently amended) A process for preparing anhydrous ondansetron hydrochloride Form B comprising the steps of:
 - a) dissolving ondansetron base in absolute ethanol;
 - b) adding to the dissolved ondansetron base an ethanolic solution of hydrogen chloride ethanol/hydrochloric acid solution to obtain anhydrous ondansetron hydrochloride Form B; and
 - c) collecting by filtration the <u>anhydrous</u> ondansetron hydrochloride Form B.
- 83. (currently amended) The process of claim 82 wherein the ethanol has no more than 0.5% water is substantially dry.
- 84. (currently amended) The process of claim 82 wherein the ondansetron base and the <u>ethanolic solution of hydrogen chloride</u> <u>ethanol/hydrochloric acid</u> <u>solution</u> are mixed at room temperature.
- 85. (currently amended) The process of claim 82 wherein the ondansetron base and the ethanolic solution of hydrogen chloride are the mixture of ondansetron base is heated at reflux temperature.
- 86. (currently amended) The process of claim 82 wherein the ondansetron base and the ethanolic solution of hydrogen chloride ethanol/hydrochloric acid solution are mixed for a period of about 30 to about 70 hours at room temperature.
- 87. (canceled)

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- 88. (canceled)
- 89. (currently amended) A pharmaceutical composition comprising the ondansetron hydrochloride of claim 39 in particle form and a pharmaceutically acceptable carrier, wherein the ondansetron hydrochloride in particle form has 100% of the particles below about 200 microns in size.
- 90. (currently amended) A pharmaceutical composition comprising the ondansetron hydrochloride of claim 41 in particle form and a pharmaceutically acceptable carrier, wherein the ondansetron hydrochloride in particle form has 100% of the particles below about 100 microns in size.
- 91. (currently amended) A pharmaceutical composition comprising the ondansetron hydrochloride of claim 43 in particle form and a pharmaceutically acceptable carrier, wherein the ondansetron hydrochloride in particle form has 100% of the particles below about 50 microns in size.

92-93. (canceled)